

Particle Technology Seminar FS12

Fridays 14-17h; ML F40

- March 2 "Characterization of Fractal-like Particles by Mass & Unipolar Charging Measurements"
Max Eggersdorfer, PTL, ETHZ
- March 9 "Production of supplement tablets with nanostructured ferric phosphate"
Seline Staub, BS planning presentation, ETHZ
"MD simulation of the structural and dynamic properties of alcohol dehydrogenase with NAMD"
Rena Goudeli, Athens, Greece
- March 12 **Mon** "Coagulation and break-up of cohesive particles in homogeneous isotropic turbulent flows"
ML E13 @4pm *Kevin Wetter, BS planning presentation*
- March 16 "Interfacial Physical Chemistry of Engineered Nanoparticles: Lessons from Biological and Environmental systems"
Prof. Yiannis Deligiannakis, University of Ioannina, Greece
"Influence of CO₂ and H₂O on the NO_x storage-reduction performance of Pt-Rh/Ba/Al₂O₃ catalysts"
Tim Vollrath, BS planning presentation, ETHZ
- March 20 **Tue** "Nanotechnology and Engineered Nanomaterials: Applications and Environmental Health
ML E13 @2.45pm Implications"
Prof. Philip Demokritou, Harvard School of Public Health, Boston, USA
- March 23 "Understand the Hydrodynamics in Fluidized Beds and Circulating Fluidized Beds"
ML F39 *Dr. Ray Cocco, Particulate Solid Research Inc., Chicago, USA*
- March 26 **Mon** "Multifunctional plasmonic nanoparticles for theranostics"
ML E13 @2pm *Fabian Starsich, BS planning presentation*
- March 30 "Discussion of the Collision Cross Section of Agglomerates & Aggregates Undergoing Brownian Motion"
Max Eggersdorfer, PTL, ETHZ
- April 13 "Breath acetone monitoring by portable Si:WO₃ gas sensors"
Marco Righettoni, PTL, ETHZ
- April 27 "Scale-up of Nanoparticle Production by FSP"
Arto Gröhn, PTL, ETHZ
- May 3 **Thur** "Breath acetone monitoring by portable Si:WO₃ gas sensors"
ML E13 @10am *Marco Righettoni, PTL, ETHZ*
"Modelling of Nanoparticle Synthesis in the Gas-Phase: Combustion Chemistry and Particle Properties"
Prof. Markus Kraft from University of Cambridge

May 11	<p>"Dynamics of Fractal-like Aerosols during Sintering" <i>Max Eggersdorfer, PTL, ETHZ</i></p> <p>"Thermodynamic Consideration of Transition Metal Fluoride Synthesis by FSP" <i>Donovan Chie, BS final presentation, ETHZ</i></p> <p>"Influence of CO₂ on the NO_x storage-reduction performance of Pt-Rh/Ba/Al₂O₃ catalysts" <i>Tim Vollrath, BS Thesis presentation, PTL</i></p>
May 14 Mon ML F40 @1pm	<p>"Coagulation and break-up of cohesive particles in homogeneous isotropic turbulent flows" <i>Kevin Wetter, BS final presentation, ETHZ</i></p> <p>"Production of supplement tablets with nanostructured ferric phosphate" <i>Seline Staub, BS final presentation, ETHZ</i></p>
May 25	<p>"Multifunctional plasmonic nanoparticles for theranostics" <i>Fabian Starsich, BS final presentation, ETHZ</i></p>
June 1	<p>"Synthesis of multimineral nutritional supplements with nano-CaO as carrier matrix" <i>Jesper Knijnenburg, PTL, ETHZ</i></p>
June 8 ML E13 @1.15pm	<p>"The quest for direct gas-phase synthesis of p-type TCOs" <i>Alexander Kompch, University Duisburg-Essen, Germany</i></p>
June 15 ML E13 @ 1.15pm	<p>„Particles synthesis by swirling tubular flame“ <i>Kakeru Fujiwara, PTL, ETHZ</i></p>
June 25 Mon ML E13 @4.15pm	<p>„Surface functionalization of superparamagnetic Fe₂O₃ nanoparticles for biomedical applications" <i>Anastasia Spyrogianni, PTL, ETHZ</i></p>
June 29 CLA J1 @1.15pm	<p>"My previous lab experiences: Solid Li-ion electrolytes, protective layers for anodes and more" <i>Miriam Ezbiri, D-MATL, ETHZ</i></p>
July 6 ML E13 @ 1.15pm	<p>"Systematic studies on utilization of naturally abundant methane using catalyst synthesized by highly controllable flame spray pyrolysis method" <i>Rajesh Koirala, PTL, ETHZ</i></p>
July 20 ML E13 @ 1.15pm	<p>"Size Effects of CuO Nanoparticles on Conversion Reaction Batteries" <i>Oliver Waser, PTL, ETHZ</i></p>
July 25 Wed ML E13 @11am	<p>"Porous Films for Gas Sensors and Polymer/Inorganic Nanocomposites" <i>Prof. Lutz Mädler, Institut für Werkstofftechnik, Universität Bremen</i></p>
Aug 7 Tue ML E13 @ 11am	<p>"Losses of suspended nanoparticles in laboratory tubes" <i>Nancy Tsoukalou, MS Student ETHZ</i></p>
Aug 16 Thu ML E13 @1pm	<p>"Scaling-up nanoparticle synthesis assisted by electrical techniques: spark and arc synthesis, size-selection and particle beam-assisted PVD" <i>Prof. Einar Kruis, Fachgebiet Nanostrukturtechnik, Universität Duisburg-Essen</i></p>
Aug 31 CLA J1 @ 1.15pm	<p>"Coagulation, Charging, and Aggregation in the Transition Regime" <i>Christopher J. Hogan, Department of Mechanical Engineering, University of Minnesota</i></p>
Sept 7 CLA J1 @ 1.15pm	<p>"Synthesis of Nanoparticles by a High Power Pulse Hollow Cathode" <i>Dr. Iris Pilch, Plasma & Coatings Physics Division, Dept. of Physics, Linköping University</i></p>